WHAT IS CLAIMED IS:

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- 1. A power amplifier comprising:
 - a field effect transistor,
- a bias voltage supply terminal supplied with a bias voltage,
 - a reference potential,
 - a first resistance element, and
- a second resistance element with a temperature coefficient smaller than that of the first resistance element, wherein
 - a first terminal of the first resistance element and a first terminal of the second resistance element are connected and the connection point of those terminals is connected to a gate terminal of the field effect transistor,
 - a second terminal of the first resistance element is connected to the bias voltage supply terminal,
 - a second terminal of the second resistance element is connected to the reference potential, and
 - the field effect transistor and the first resistance element are semiconductor devices formed on the same semiconductor substrate.
 - 2. A power amplifier as set forth in claim 1, wherein a resistance value of the second resistance element is variable.

- 3. A power amplifier comprising:
 - a field effect transistor,
- a bias voltage supply terminal supplied with a bias voltage,
- a reference potential,

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- a first resistance element,
- a second resistance element, and
- a third resistance element with a temperature coefficient smaller than those of the first resistance element and the second resistance element, wherein
- a first terminal of the first resistance element and a first terminal of the second resistance element are connected and the connection point of those terminals is connected to a gate terminal of the field effect transistor,
- a second terminal of the second resistance element is connected to a first terminal of the third resistance element,
- a second terminal of the first resistance
 20 element is connected to the bias voltage supply terminal,
 - a second terminal of the third resistance element is connected to the reference voltage, and

the field effect transistor, the first
resistance element, and the second resistance element are
semiconductor devices formed on the same semiconductor

substrate.

- 4. A power amplifier as set forth in claim 3, wherein a resistance value of the third resistance element is variable.
- A power amplifier comprising;
 - a field effect transistor,
 - a bias voltage supply terminal supplied with a bias voltage,
 - a reference potential,
- a first resistance element,
 - a second resistance with a temperature coefficient smaller than that of the first resistance element, and
- a third resistance element with a temperature

 coefficient smaller than that of the first resistance
 element, wherein
 - a first terminal of the first resistance element and a first terminal of the second resistance element are connected,
- a second terminal of the second resistance element and a first terminal of the third resistance element are connected,
 - a connection point of those terminals is connected to a gate terminal of the field effect
- 25 transistor.

a second terminal of the first resistance element is connected to the bias voltage supply terminal,

a second terminal of the third resistance
element is connected to the reference potential, and
the field effect transistor and the first
resistance element are semiconductor devices formed on

6. A power amplifier as set forth in claim 5, wherein a resistance value of the third resistance lo element is variable.

the same semiconductor substrate.